

M139152-US

= FR 2,905,872

(5)

95-016148/03 ROQUETTE FRERES SA 93.05.28 93FR-006430 (94.12.02) C08J 3/12, A01N 25/12, A61K 9/16, 47/40, C05G 5/00 (C08L 5.16)	B07 C07 ROQF 93.05.28 *FR 2705677-A1	BC(4-C2B1, 10-B4D, 12-M10, 12-M11D) C(4-C2B1, 12-M11D) .5
Microgranules produced by extrusion and spheronisation - contg. cyclodextrin, useful for controlled release of medicaments or agrochemicals		
C95-007116		
Addnl. Data: GIORDANO F, GAZZANIGA A, POSSATI E, LEFEVRE P		
<p>Microgranules produced by extrusion and spheronisation contain &gt;1 cyclodextrin (I) as an excipient.</p> <p>Also claimed is the prodn. of microgranules by introducing (I) into a mixer, opt. together with other excipients and/or active ingredients; adding H<sub>2</sub>O and/or EtOH; extruding the mixt.; introducing the extrudates into a spheroniser to form spherical microgranules; and drying the microgranules.</p>		
<p><b>USE</b> The microgranules are useful as carriers for pharmaceuticals, veterinary medicaments or agrochemicals.</p> <p><b>ADVANTAGE</b></p>		
		The microgranules dissolve more rapidly than those based on microcrystalline cellulose (MC) while still providing controlled release of active ingredients due to cyclodextrin clathrate formation.
		<b>PREFERRED GRANULES</b> The granules contain 1-98 (esp. 10-90) wt.% of (I), esp. β-cyclodextrin (Ia), opt. together with other excipients (esp. MC), lubricants, disintegrants and/or glidants. The granules may be coated with a soln. contg. sugars, polymers, waxes and/or lipid derivs., pref. also contg. (I).
		<b>EXAMPLE</b> A Patterson-Kelley high-speed granulator was charged with 30kg (Ia) and supplied with 10 litres H <sub>2</sub> O/EtOH (1:1) at a rate of 1 l/min. The mixt. was blended for 30 mins. and passed to a NICA E4 extruder with a die orifice size of 1 mm. The extrudates were processed in a NICA S2-450 spheroniser at 500 rpm for 9 mins. The granules were dried in a fluidised bed at 70°C for 30 mins. (18pp367DwgNo.0/0)
		FR 2705677-A